



Figure A

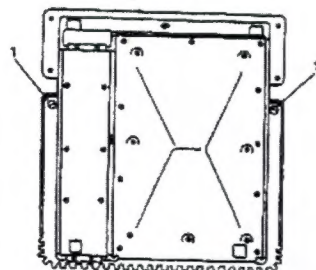


Figure B



Figure C

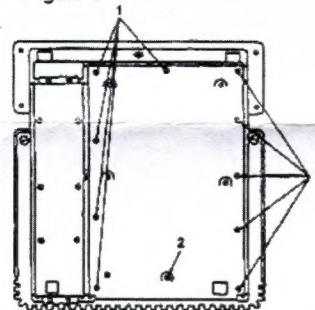


Figure I

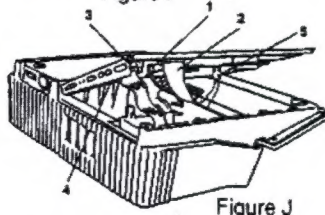


Figure J

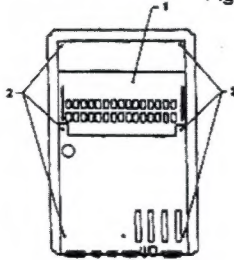


Figure K

# Clock Upgrade Installation

## INSTRUCTIONS

### Contents of Kit:

- 1- Battery clip
- 1- Wire and connector assembly
- 1- Motherboard connection clip
- 1- Clock integrated circuit

### First prepare your Apple III for disassembly

Disconnect power cable from computer.  
Disconnect all other external cables (figure A).  
Lift up the front edge of the Apple and tip it so that it rests on the back of the casing.  
Use a flat blade screwdriver to turn the locking screw on each side under the cover towards the front (figure B item 1).  
Turn the screws 1/4 turn counterclockwise.  
Lower the Apple III to the table, lift the cover up, and pull it forward to remove (figure C).

### Installing the battery clip

Connect the two separate ends of the wire assembly to the battery case. Red goes to positive (+), black goes to negative (-).  
Attach the clip to the heatsink to the left of the speaker (fig L).  
Push the wires through the same hole the speaker wires pass.

Remove all peripheral cards from their slots.

Replace the cover (you need not lock screws in place).

### Removal of the Baseplate

Place the computer upside down on a table, rear facing you.  
Remove the 11 screws around the large plate (figure I).  
Lift bottom plate from right side just a few inches.  
Carefully disconnect the speaker, keyboard, and disk drive cables (figure J, items 1, 2 & 3).

NOTE: Remember where each cable goes for reassembly. You remove the larger cables with a gentle side-to-side rocking motion. DO NOT pull on the cable itself; it could cause future failures.

Lift the assembly and finally remove the power supply plug.

### Removal of the Motherboard from the Baseplate

Treat your motherboard gently. Avoid static electricity by grounding yourself out to a doorknob or such before proceeding.  
Unscrew the six screws that hold the board to the baseplate.  
Lift the motherboard from the baseplate. (figure K item 2)

### Installation of the Motherboard Connection Clip

Unscrew the yoke on the clip from the plastic base.  
Insert the yoke, from the bottom of the motherboard, into the two small holes located at position G-14. (see map, page 32)  
Place the clock plate connector over the large hole, reinsert the screw, and tighten the yoke and connector together. The cut corners are there to allow space for nearby components. Place the squared corner facing front and to the edge of the motherboard.

### Installation of the Clock Chip

Locate socket at position B-3. (see map, page 32) It should be empty. Note the notch at one end of the chip. Make sure it is pointed the same direction as the other chips on the board. Do it wrong and say, "BYE, BYE" to your clock chip.

It may be necessary to bend the pins of the chip slightly so they will enter the socket. If that is the case, gently press the pins against a metal surface. Avoid touching the pins with your hands!

Insert the clock chip into the socket and push it firmly into place. Check to be sure that all of the pins went into their locations without bending.

### Reassembly

To reassemble, reverse the steps of assembly. Remember that you have a new cable that runs to your clock connector. The polarity of this connection is very important. The clock connector has a plastic nib that should be between the corresponding two nibs on the wire connector.

NOTE: Before you reassemble, take the time to push on each chip on the motherboard with your thumb to insure that they are firmly seated. They often work themselves loose over time and use.

Once you have reassembled your computer, reinsert your peripheral cards.

While the top cover is still off, install three AA batteries in the battery clip observing indicated polarity.

Now that your new clock is installed you can set it using your SYSTEMS UTILITIES program under Device Handling.

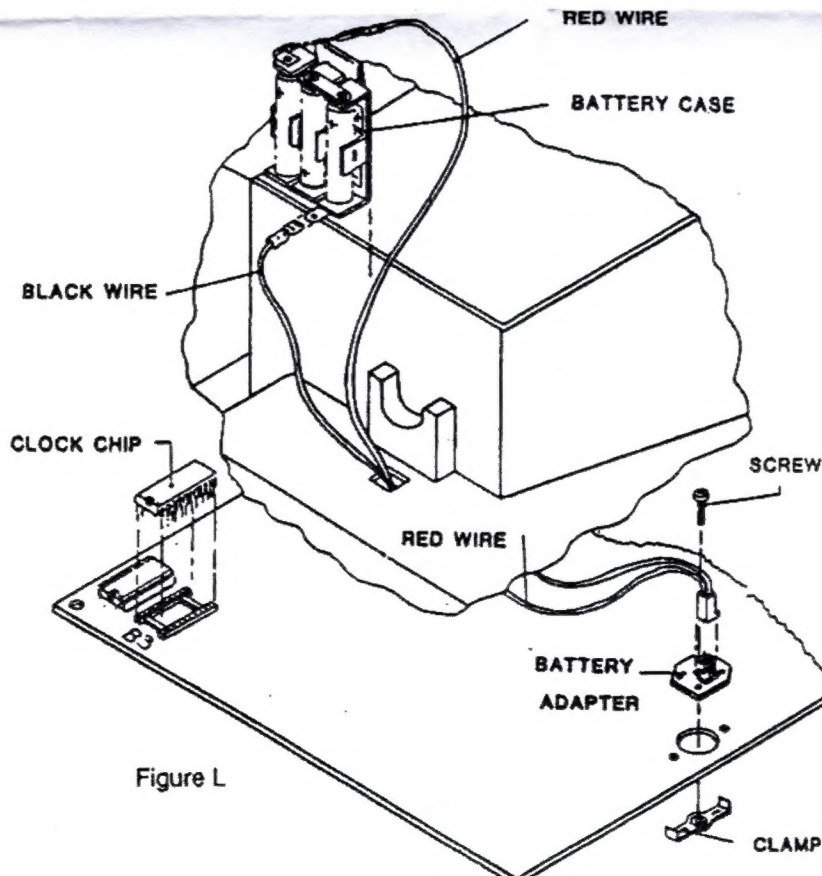


Figure L